

# USGS EROS Workflows

## DIF Workflow

1. Based on our conversations during the metadata [reconciliation meeting of 3.4-5.2015](#), USGS EROS Manages its DIF records via similar to the process employed by LPDAAC. This work is done as part of the IDN.

## ECHO Workflow

### USGS\_EROS (ECHO)

1. Web Service calls are made daily to get Landsat data. The Landsat Webservice accesses the UIS database. One call is made to get all granules updated between a range of dates (last run to current). One call is made to get all granules deleted (these only persist in Landsat from midnight to midnight).
  - a. TS2=<http://eetestdev.cr.usgs.gov/LandsatUpdateService/devsys/LandsatUpdateService?wsdl>
  - b. TS1=<http://eetestdevmast.cr.usgs.gov/LandsatUpdateService/devmast/LandsatUpdateService?wsdl>
  - c. OPS=<http://earthexplorer.usgs.gov/LandsatUpdateService/LandsatUpdateService?wsdl>
2. XML is formatted and validated against the .xsd and ftp'd to [ingest.echo.nasa.gov](http://ingest.echo.nasa.gov)
  - a. Collections: /data/collection
  - b. Granules: /data/granule
  - c. Browse: /data/browse
3. A few days after the files are ftp'd, we reconcile to make sure they were ingested. We call DataManagement Service.GetDatasetInformation (for the <LastUpdate> date range) and Landsat web service (for the same last update date range) . Retrieve zipped results from [ingest.echo.nasa.gov/output/reconciliation/](http://ingest.echo.nasa.gov/output/reconciliation/) and compare to find discrepancies.
4. Full dataset reconciliation periodically. Last\_update date ranges are retrieved from the Landsat webservice that will return 'x' number of granules. Echo datamanagementService.getdatasetInformation is called for the same <LastUpdate> date range (Retrieve zipped results from [ingest.echo.nasa.gov/output/reconciliation/](http://ingest.echo.nasa.gov/output/reconciliation/)) and comparisons are performed to find discrepancies. Send corrections to ECHO.
5. LPDAAC Data Management is responsible for periodic reconciliation of the Landsat datasets. For example, we've had times when the cron's have been messed up and not run for a week. This meant the DELETE wasn't run for a week. PULL can be run later, but if DELETE is missed, it can't be recovered. The deleted granules are only available for a 24 hour period. This could cause discrepancies, and a full dataset reconciliation would find those.
6. Access Control Lists (ACLs) are created by the Data Manager via ECHO's PUMP interface in order to control visibility of each dataset and its holdings. The ACLs default to hidden so a dataset and its granules are only made publicly visible when the ACLs are set accordingly.

#### A Note About the Tri-Decadal Collections

There are 6 Landsat Tri-Decadal Collections. These are static datasets from phase 1 of this project. The code to create the ingest xml's for these datasets, validates against the ECHO 9.0 dtd's.

When ECHO makes changes to the Collection or Granule schema's, I usually try to keep this code "functional" as well, just in case. There may be times when we have to reingest the collection xml (such as when we added the DIF ids). One thing to note, if you do need to re-ingest something for these collections – you need to ask ECHO operations to temporarily switch ingest to ECHO 9 format. Be sure to ask them to change it back before anything is sent to ingest in ECHO 10 format.

## EMS Workflow

N/A

## CMR Workflow

*TBA*

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